	FL		IECHANICS						
1	Course Title:	FLUID N	IECHANICS						
2	Course Code:	FZK2403	3						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	sle						
5	Year of Study:	2							
6	Semester:	3							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	There is	no course prerequisite						
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Prof. Dr.	SERTAN KEMAL AKAY						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Prof. Dr. S. Kemal AKAY E-mail: kakay@uludag.edu.tr İş tel: 0 224 29 41 719 Adres: Uludağ Üniversitesi Fen Edebiyat Fakültesi Fizik Bölümü 16059 Görükle Kampüsü Bursa							
17	Website:								
18	Objective of the Course:	Basic properties of fluids (surface tension, capillary, cohesion- adhesion forces, etc.) and determine the various factors of the static fluid changes							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Understands the differences according to different items of fluids						
		2	The behavior of the fluid can be expressed on a daily basis in their daily life						
		3	calculate the pressure for fluids						
		4	Behavioral differences between the fluids and the effects of stagnant or flowing fluids can comprehend						
		5	Interpret the surrounding formations of Pascal and Archimedes' principle-based on applications						
		6	Sees the concept of ideal fluid facilities created by science						
		7	Stokes describes the flow of blood in your veins, and the Van der Waals equation with Poiseuille behavior and learn the properties of real fluid						
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
	Theoretical		Practice						
1	The concept of the fluid, the fluid pro and effects	operties							

	The bas stagnan					cs and	b										
	Pressure solving	e chan	ige wit	h dep	th and	proble	em										
	Pascal, applicati		nedes	princi	ples ar	nd											
5	Fluid dy	namic	s, the o	conce	pt of id	eal flu	id										
6	Flow line	es, Co	ntinuit	y and	Bernou	ulli equ	uation	s									
7	Applicat	ions o	f Berno	oulli e	quatior	۱											
8	Charact	eristics	s of lar	ninar	flows a	ind wh	hirlpoo	I									
	The actu ideal de			ept a	nd diffe	erence	s in										
10	Repeati	ng cou	irses a	nd mi	dterm	exam											
	Pure liqu practice		w, Pois	seuille	, and S	Stokes	' law										
i	Flow of its applie	cations	6				n and										
	Impulse conserv	ation		-													
	One and two-dimensional flows of ideal and real fluids																
	Textbooks, References and/or Other Materials:								1. "Fundamentals of Physics", David Halliday, Robert Resnick, (2008), Wiley								
Activites								Numb	er		Duration (hour)			Total Work Load (hour)			
Theoret	ical							T	14			3.00			42.00		
Practica	ls/Labs							()			0.00			0.00		
SER M th	50 B Non	Reper t	YITIES	;		N	UMBE	WE	тнац			3.00			42.00		
Homewo	orks							ŀ	14			4.00			56.00		
Brgjects												0.00			0.00		
Field St	ź [0] Id Studies									0					0.00		
MINTER	die En exams 1									50 ¹ 00					2.00		
Others									0				0.00			0.00	
Einai Ex Contribu	nai Exams											2.00		2.00			
Total W	Total Work Load														144.00		
	ଡାକା ଅହମର Pade Anahexam to Success Grade									50.00							
ECTS C	CTS Credit of the Course														5.00		
Measure Course	ement a	nd Eva	aluatio	n Tec	hnique	s Use	d in th	е									
24	ECTS	/ WO	RK L	OAD	TAB	LE		-									
25			CON	TRIE	BUTIO	N OI	F LE/	ARN	ING	ουτα	OME	S ТО I	PROC	GRAM	ME		
	QUALIFICATIONS																
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	
ÖK1										0			3		0	0	
	4	4	3	0	0	0		0	0	0	0	0	0	0	0	0	
ÖK2	4	4	3	0	0	3	0	0	0	0	0	0	0	0	0	0	
ÖK3	4	4	3	0	0	3	0	0	0	0	0	0	0	0	0	0	

ÖK4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK5	3	3	3	0	0	3	0	0	0	0	0	0	0	0	0	0	
ÖK6	4	4	4	0	0	4	0	0	0	0	0	0	0	0	0	0	
ÖK7	4	4	4	0	0	3	0	0	0	0	0	0	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	ution				2 low			3 Medium			4 High			5 Very High			